

No. of Printed Pages : 3 **MGYL-012(Set-II)**

**M. SC. (GEOINFORMATICS)**  
**(MSCGI)**

**Term-End Practical Examination**  
**June, 2025**

**MGYL-012(Set-II) : ADVANCED**  
**GEOINFORMATICS LABORATORY**

*Time : 3 Hours*

*Maximum Marks : 30*

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**Note :** (i) *All questions are compulsory. Marks are indicated against each question.*

(ii) *Evaluation would be done under three parameters (i.e., performance, results/outputs and viva-voce).*

(iii) *The data to be used in the examination are either provided by the examination centres in the computer allotted to you or can be downloaded/used using internet specifically for the questions related to GEE, etc.*

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- (iv) *The data provided in the computers are in the folder, named as A, B, C, ..... which are mentioned in the question paper as (A), (B), (C), ..... , respectively.*
- (v) *Keep all the soft copy results/outputs appropriately in the computer in a folder with your enrollment number. Other answers are to be written in the answer-sheet provided to you.*
- (vi) *Incomplete and illegible results/ outputs will not be evaluated.*
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1. (a) Create NDVI over the past decade for Delhi region using Google Earth Engine. Analyse the result and write your interpretation in the answer-sheet.

6+3

[**Hint** : You can use seasonal or annual NDVI data].

**[ 3 ]**

- (b) Create a False Colour Composite (FCC) from the given dataset (B) and classify the FCC using Python to generate a landuse land cover map having at least 4 classes. 1+4
- (c) Publish a raster dataset in GeoServer and make it available as a Web Map Service (WMS). Write the major steps in your answer-sheet. 3+2  
[**Hint** : You can use the data in the folder (A) and/or (B) and the outputs generated at 1a and/or b].
- (d) Write the steps for inserting geospatial data into Post-GIS-enabled table. 3  
[**Hint** : For example, you can insert coordinates for major landmarks in a city].
- (e) Write the steps for adding a Web Map Service (WMS) layer to your open layers map. 3
2. Viva-voce. 5

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